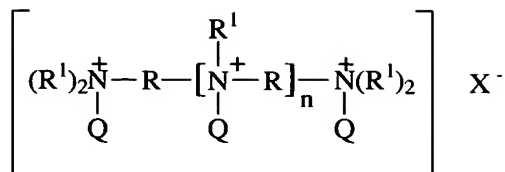
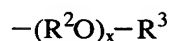


## WHAT IS CLAIMED IS:

1. A polyamine having the formula:



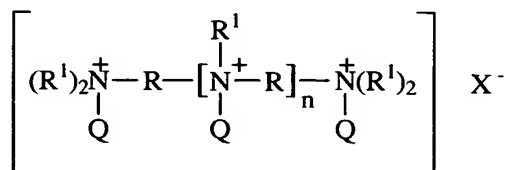
wherein R is C<sub>6</sub>-C<sub>12</sub> linear or branched alkylene, and mixtures thereof; R<sup>1</sup> is an alkyleneoxy unit having the formula:



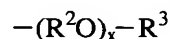
wherein R<sup>2</sup> is C<sub>2</sub>-C<sub>4</sub> linear or branched alkylene, and mixtures thereof; R<sup>3</sup> is hydrogen, benzyl, and mixtures thereof; x is from about 15 to about 30; at least one Q moiety is a hydrophobic quaternizing unit selected from the group consisting of C<sub>8</sub>-C<sub>30</sub> substituted or unsubstituted linear or branched alkyl, C<sub>6</sub>-C<sub>30</sub> substituted or unsubstituted cycloalkyl, C<sub>7</sub>-C<sub>30</sub> substituted or unsubstituted alkylenearyl, and mixtures thereof, and the remaining Q moieties are selected from the group consisting of lone pairs of electrons on the unreacted nitrogens, hydrogen, C<sub>1</sub>-C<sub>30</sub> substituted or unsubstituted linear or branched alkyl, C<sub>3</sub>-C<sub>30</sub> substituted or unsubstituted cycloalkyl, C<sub>7</sub>-C<sub>30</sub> substituted or unsubstituted alkylenearyl, and mixtures thereof; X is an anion present in sufficient amount to provide electronic neutrality; n is from 0 to 3.

2. A compound according to Claim 1 wherein Q is benzyl.
3. A compound according to Claim 1 wherein R is hexylene.
4. A compound according to Claim 1 wherein R<sup>2</sup> is ethylene.
5. A compound according to Claim 1 wherein R<sup>3</sup> is hydrogen.
6. A compound according to Claim 1 wherein x is from 18 to 22.
7. A compound according to Claim 6 wherein x is 20.

8. A compound according to Claim 1 wherein n is 1.
9. A compound according to Claim 2 wherein R is hexylene, R<sup>2</sup> is ethylene, R<sup>3</sup> is hydrogen, x is 20, Q is benzyl, and n is 1.
10. A compound according to Claim 9 wherein X is a water soluble anion selected from the group consisting of chlorine, bromine, iodine, methylsulfate, and mixtures thereof.
11. A laundry detergent composition comprising:
  - A) from about 0.01% to about 50% by weight of a hydrophobically modified polyamine having the formula:



wherein R is C<sub>6</sub>-C<sub>20</sub> linear or branched alkylene, and mixtures thereof; R<sup>1</sup> is an alkyleneoxy unit having the formula:

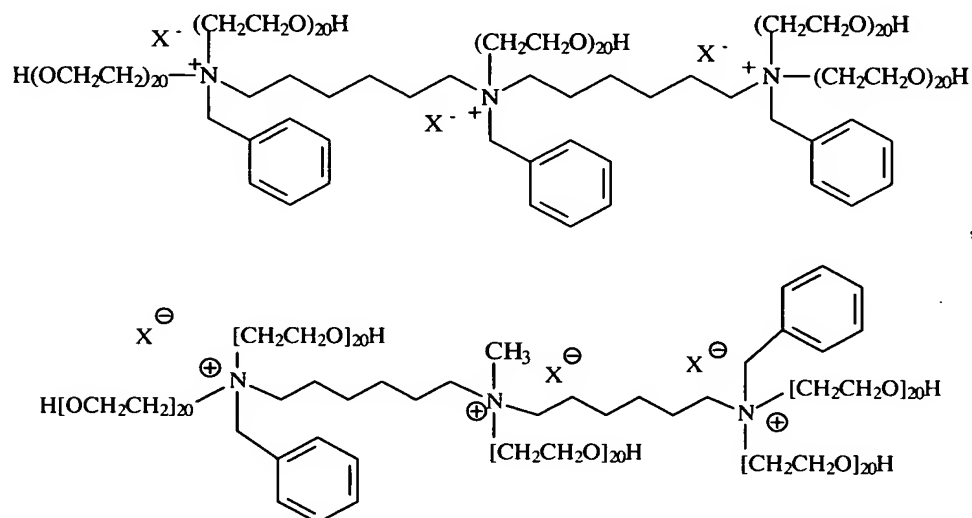


wherein R<sup>2</sup> is C<sub>2</sub>-C<sub>4</sub> linear or branched alkylene, and mixtures thereof; R<sup>3</sup> is hydrogen, C<sub>1</sub>-C<sub>22</sub> alkyl, C<sub>7</sub>-C<sub>22</sub> alkylenearyl, and mixtures thereof; x is from about 15 to about 30; at least one Q moiety is a hydrophobic quaternizing unit selected from the group consisting of C<sub>8</sub>-C<sub>30</sub> substituted or unsubstituted linear or branched alkyl, C<sub>6</sub>-C<sub>30</sub> substituted or unsubstituted cycloalkyl, C<sub>7</sub>-C<sub>30</sub> substituted or unsubstituted alkylenearyl, and mixtures thereof, and the remaining Q moieties are selected from the group consisting of lone pairs of electrons on the unreacted nitrogens, hydrogen, C<sub>1</sub>-C<sub>30</sub> substituted or unsubstituted linear or branched alkyl, C<sub>3</sub>-C<sub>30</sub> substituted or unsubstituted cycloalkyl, C<sub>7</sub>-C<sub>30</sub> substituted or unsubstituted alkylenearyl, and mixtures thereof; X is an anion present in sufficient amount to provide electronic neutrality; n is from 0 to 3;

- B) from about 0.01% to about 80% by weight, of a surfactant system comprising one or more surfactants selected from:
  - i) from 0% to 100% by weight, of one or more anionic surfactants;

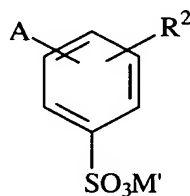
- ii) from 0% to 100% by weight, of one or more nonionic surfactants;
  - iii) optionally from 0.1% to about 80% by weight, of one or more cationic surfactants;
  - iv) optionally from 0.1% to about 80% by weight, of one or more zwitterionic surfactants;
  - v) optionally from 0.1% to about 80% by weight, of one or more ampholytic surfactants; or
  - vi) mixtures thereof;
- C) the balance carriers and adjunct ingredients.
12. A composition according to Claim 11 wherein R is C<sub>6</sub>-C<sub>10</sub> alkylene, and mixtures thereof.
13. A composition according to Claim 12 wherein R is hexylene.
14. A composition according to Claim 11 wherein R<sup>2</sup> is ethylene, 1,2-propylene, and mixtures thereof.
15. A composition according to Claim 14 wherein R<sup>2</sup> is ethylene.
16. A composition according to Claim 14 wherein R<sup>3</sup> is hydrogen.
17. A composition according to Claim 14 wherein the index x is from 15 to 25.
18. A composition according to Claim 17 wherein the index x is 20.
19. A composition according to Claim 11 wherein Q is C<sub>12</sub>-C<sub>18</sub> linear alkyl, C<sub>7</sub>-C<sub>12</sub> substituted or unsubstituted alkylenearyl, and mixtures thereof.
20. A composition according to Claim 19 wherein Q is benzyl.
21. A composition according to Claim 11 wherein the index n is 0 or 1.

22. A composition according to Claim 11 wherein said hydrophobically modified polyamine is selected from hydrophobically modified polyamines having the formulas:

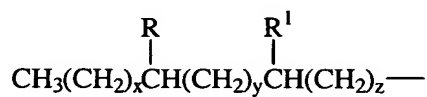


and mixtures thereof; wherein X is a water soluble anion selected from the group consisting of chlorine, bromine, iodine, methylsulfate, and mixtures thereof.

23. A composition according to Claim 11 wherein said surfactant system comprises from about 0.01% to about 100% by weight, of one or more surfactants selected from:
- from about 1% to about 80% by weight, of an anionic surfactant selected from:
    - linear alkyl benzene sulfonates;
    - mid-chain branched aryl sulfonate surfactants having the formula:

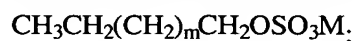


wherein A is a mid-chain branched alkyl unit having the formula:

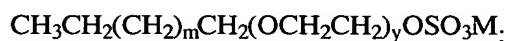


wherein R and R<sup>1</sup> are each independently hydrogen, C<sub>1</sub>-C<sub>3</sub> alkyl, and mixtures thereof, provided the total number of carbon atoms in said alkyl unit is from 6 to 18 and at least one of R and R<sup>1</sup> is not hydrogen; x is an integer from 0 to 13; y is an integer from 0 to 13; z is 0 or 1; R<sup>2</sup> is hydrogen, C<sub>1</sub>-C<sub>3</sub> alkyl, and mixtures thereof; M' is a water soluble cation with sufficient charge to provide neutrality;

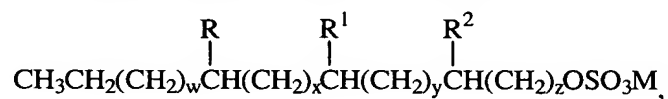
- c) branched alkyl sulfate surfactants having the formula:



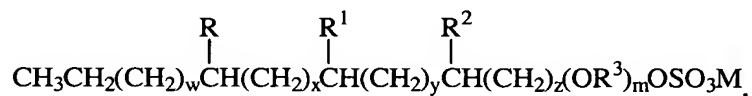
or the formula:



- d) mid-chain branched alkyl sulfate surfactants having the formula:



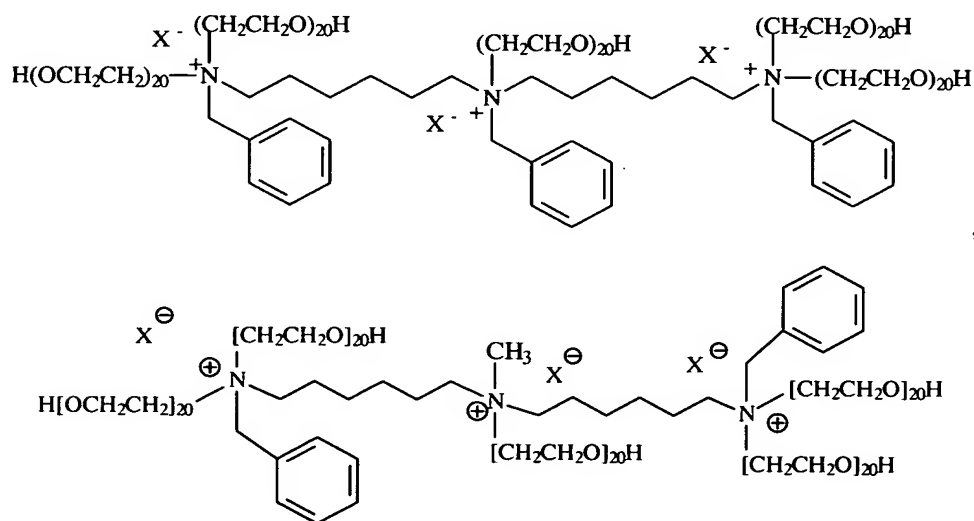
or the formula:



wherein R, R<sup>1</sup>, and R<sup>2</sup> are each independently hydrogen, C<sub>1</sub>-C<sub>3</sub> alkyl, and mixtures thereof, provided the total number of carbon atoms in said surfactant is from 14 to 20 and at least one of R, R<sup>1</sup>, and R<sup>2</sup> is not hydrogen; the index w is an integer from 0 to 13; x is an integer from 0 to 13; y is an integer from 0 to 13; z is an integer of at least 1; provided w + x + y + z is from 8 to 14 and the total number of carbon atoms in a surfactant is from 14 to 20; R<sup>3</sup> is ethylene, 1,2-propylene, 1,3-propylene, 1,2-butylene, 1,4-butylene, and mixtures thereof; the average value of the index m is at least about 0.01; M is hydrogen, a water soluble cation of sufficient charge to provide electronic neutrality, and mixtures thereof;

- ii) from 0% to 100% by weight, of one or more nonionic surfactants;
- iii) optionally from 0.1% to about 80% by weight, of one or more cationic surfactants;
- iv) optionally from 0.1% to about 80% by weight, of one or more zwitterionic surfactants;

- v) optionally from 0.1% to about 80% by weight, of one or more ampholytic surfactants; or
  - vi) mixtures thereof.
24. A composition according to Claim 11 further comprising about 1% by weight of a builder.
25. A composition according to Claim 11 further comprising from about 1% by weight, of a peroxygen bleaching system comprising:
- i) from about 40% by weight, of the bleaching system, a source of hydrogen peroxide;
  - ii) optionally from about 0.1% by weight, of the bleaching system, a bleach activator;
  - iii) optionally from about 1 ppb of the composition, of a transition-metal bleach catalyst; and
  - iv) optionally from about 0.1% by weight, of a pre-formed peroxygen bleaching agent.
26. A laundry detergent composition comprising:
- A) from about 0.01% by weight of a hydrophobically modified polyamine selected from hydrophobically modified polyamines having the formulas:

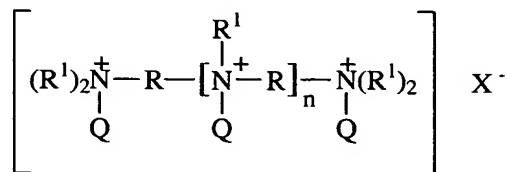


and mixture thereof; wherein X is a water soluble anion selected from the group consisting of chlorine, bromine, iodine, methylsulfate, and mixtures thereof

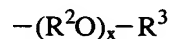
- B) from about 0.01% by weight, of a surfactant system comprising one or more surfactants selected from:
- i) from 0% to 100% by weight, of one or more anionic surfactants;
  - ii) from 0% to 100% by weight, of one or more nonionic surfactants;
  - iii) optionally from 0.1% to about 80% by weight, of one or more cationic surfactants;
  - iv) optionally from 0.1% to about 80% by weight, of one or more zwitterionic surfactants;
  - v) optionally from 0.1% to about 80% by weight, of one or more ampholytic surfactants; or
  - vi) mixtures thereof;
- C) the balance carriers and adjunct ingredients.

27. A nil surfactant laundry composition comprising:

- a) from about 0.01% by weight of a hydrophobically modified polyamine having the formula:



wherein R is C<sub>6</sub>-C<sub>20</sub> linear or branched alkylene, and mixtures thereof; R<sup>1</sup> is an alkyleneoxy unit having the formula:



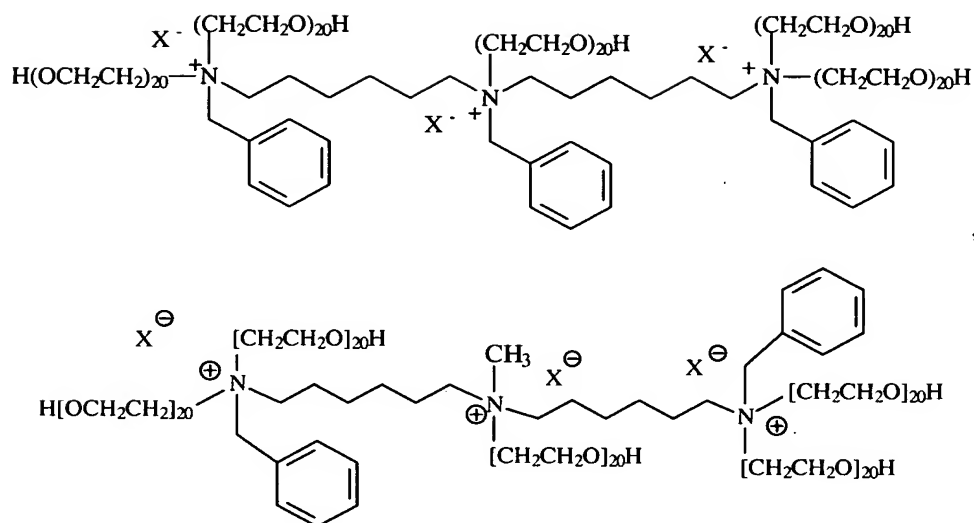
wherein R<sup>2</sup> is C<sub>2</sub>-C<sub>4</sub> linear or branched alkylene, and mixtures thereof; R<sup>3</sup> is hydrogen, C<sub>1</sub>-C<sub>22</sub> alkyl, C<sub>7</sub>-C<sub>22</sub> alkylenearyl, and mixtures thereof; x is from about 15 to about 30; at least one Q moiety is a hydrophobic quaternizing unit selected from the group consisting of C<sub>8</sub>-C<sub>30</sub> substituted or unsubstituted linear or branched alkyl, C<sub>6</sub>-C<sub>30</sub> substituted or unsubstituted cycloalkyl, C<sub>7</sub>-C<sub>30</sub> substituted or unsubstituted alkylenearyl, and mixtures thereof, and the remaining Q moieties are selected from the group consisting of lone pairs of electrons on the unreacted nitrogens, hydrogen, C<sub>1</sub>-C<sub>30</sub> substituted or unsubstituted linear or

branched alkyl, C<sub>3</sub>-C<sub>30</sub> substituted or unsubstituted cycloalkyl, C<sub>7</sub>-C<sub>30</sub> substituted or unsubstituted alkylenearyl, and mixtures thereof; X is an anion present in sufficient amount to provide electronic neutrality; n is from 0 to 3; and

b) the balance carriers and adjunct ingredients.

28. A composition according to Claim 27 wherein R is C<sub>6</sub>-C<sub>10</sub> alkylene, and mixtures thereof.
29. A composition according to Claim 28 wherein R is hexylene.
30. A composition according to Claim 27 wherein R<sup>2</sup> is ethylene, 1,2-propylene, and mixtures thereof.
31. A composition according to Claim 30 wherein R<sup>2</sup> is ethylene.
32. A composition according to Claim 30 wherein R<sup>3</sup> is hydrogen.
33. A composition according to Claim 30 wherein the index x is from 15 to 25.
34. A composition according to Claim 33 wherein the index x is 20.
35. A composition according to Claim 27 wherein Q is C<sub>12</sub>-C<sub>18</sub> linear alkyl, C<sub>7</sub>-C<sub>12</sub> substituted or unsubstituted alkylenearyl, and mixtures thereof.
36. A composition according to Claim 35 wherein Q is benzyl.
37. A composition according to Claim 27 wherein the index n is 0 or 1.
38. A composition according to Claim 27 wherein said hydrophobically modified polyamine is selected from hydrophobically modified polyamines having the formulas:

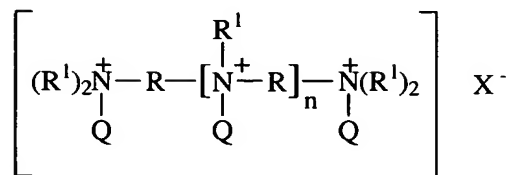




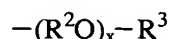
and mixtures thereof; wherein X is a water soluble anion selected from the group consisting of chlorine, bromine, iodine, methylsulfate, and mixtures thereof.

39. A composition according to Claim 27 further comprising a catalytically effective amount of a transition-metal bleach catalyst which is a complex of a transition-metal and a cross-bridged macropolycyclic ligand wherein said composition further comprises no source of peroxygen.
40. A composition according to Claim 27 further comprising about 1% by weight of a builder.
41. A composition according to Claim 27 further comprising from about 1% by weight, of a peroxygen bleaching system comprising:
  - i) from about 40% by weight, of the bleaching system, a source of hydrogen peroxide;
  - ii) optionally from about 0.1% by weight, of the bleaching system, a bleach activator;
  - iii) optionally from about 1 ppb of the composition, of a transition-metal bleach catalyst; and
  - iv) optionally from about 0.1% by weight, of a pre-formed peroxygen bleaching agent.
42. A laundry cleaning composition comprising:

- A) from about 0.01% by weight of a hydrophobically modified polyamine having the formula:



wherein R is C<sub>6</sub>-C<sub>20</sub> linear or branched alkylene, and mixtures thereof; R<sup>1</sup> is an alkyleneoxy unit having the formula:

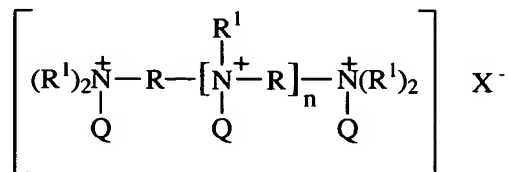


wherein R<sup>2</sup> is C<sub>2</sub>-C<sub>4</sub> linear or branched alkylene, and mixtures thereof; R<sup>3</sup> is hydrogen, C<sub>1</sub>-C<sub>22</sub> alkyl, C<sub>7</sub>-C<sub>22</sub> alkylenearyl, and mixtures thereof; x is from about 15 to about 30; at least one Q moiety is a hydrophobic quaternizing unit selected from the group consisting of C<sub>8</sub>-C<sub>30</sub> substituted or unsubstituted linear or branched alkyl, C<sub>6</sub>-C<sub>30</sub> substituted or unsubstituted cycloalkyl, C<sub>7</sub>-C<sub>30</sub> substituted or unsubstituted alkylenearyl, and mixtures thereof, and the remaining Q moieties are selected from the group consisting of lone pairs of electrons on the unreacted nitrogens, hydrogen, C<sub>1</sub>-C<sub>30</sub> substituted or unsubstituted linear or branched alkyl, C<sub>3</sub>-C<sub>30</sub> substituted or unsubstituted cycloalkyl, C<sub>7</sub>-C<sub>30</sub> substituted or unsubstituted alkylenearyl, and mixtures thereof; X is an anion present in sufficient amount to provide electronic neutrality; n is from 0 to 3;

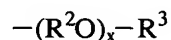
- B) a catalytically effective amount of a transition-metal bleach catalyst which is a complex of a transition-metal and a cross-bridged macropolycyclic ligand; and  
C) the balance carriers and adjunct ingredients.

43. A method for cleaning fabric comprising the step of contacting an article of fabric with an aqueous solution containing at least 0.1% by weight of a composition comprising:

- A) from about 0.01% by weight of a hydrophobically modified polyamine having the formula:



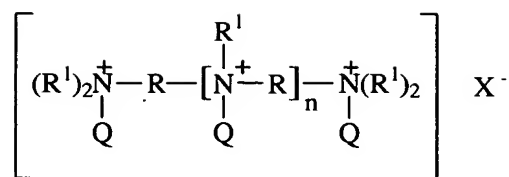
wherein R is C<sub>6</sub>-C<sub>20</sub> linear or branched alkylene, and mixtures thereof; R<sup>1</sup> is an alkyleneoxy unit having the formula:



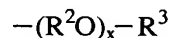
wherein R<sup>2</sup> is C<sub>2</sub>-C<sub>4</sub> linear or branched alkylene, and mixtures thereof; R<sup>3</sup> is hydrogen, C<sub>1</sub>-C<sub>22</sub> alkyl, C<sub>7</sub>-C<sub>22</sub> alkylenearyl, and mixtures thereof; x is from about 15 to about 30; at least one Q moiety is a hydrophobic quaternizing unit selected from the group consisting of C<sub>8</sub>-C<sub>30</sub> substituted or unsubstituted linear or branched alkyl, C<sub>6</sub>-C<sub>30</sub> substituted or unsubstituted cycloalkyl, C<sub>7</sub>-C<sub>30</sub> substituted or unsubstituted alkylenearyl, and mixtures thereof, and the remaining Q moieties are selected from the group consisting of lone pairs of electrons on the unreacted nitrogens, hydrogen, C<sub>1</sub>-C<sub>30</sub> substituted or unsubstituted linear or branched alkyl, C<sub>3</sub>-C<sub>30</sub> substituted or unsubstituted cycloalkyl, C<sub>7</sub>-C<sub>30</sub> substituted or unsubstituted alkylenearyl, and mixtures thereof; X is an anion present in sufficient amount to provide electronic neutrality; n is from 0 to 3;

- B) from about 0.01% by weight, of a surfactant system comprising one or more surfactants selected from:
- i) from 0% to 100% by weight, of one or more anionic surfactants;
  - ii) from 0% to 100% by weight, of one or more nonionic surfactants;
  - iii) optionally from 0.1% to about 80% by weight, of one or more cationic surfactants;
  - iv) optionally from 0.1% to about 80% by weight, of one or more zwitterionic surfactants;
  - v) optionally from 0.1% to about 80% by weight, of one or more ampholytic surfactants; or
  - vi) mixtures thereof;
- C) the balance carriers and adjunct ingredients.

44. A method for cleaning fabric comprising the step of contacting an article of fabric with an aqueous solution containing at least 0.1% by weight of a composition comprising:
- A) from about 0.01% by weight of a hydrophobically modified polyamine having the formula:



wherein R is C<sub>6</sub>-C<sub>20</sub> linear or branched alkylene, and mixtures thereof; R<sup>1</sup> is an alkyleneoxy unit having the formula:



wherein R<sup>2</sup> is C<sub>2</sub>-C<sub>4</sub> linear or branched alkylene, and mixtures thereof; R<sup>3</sup> is hydrogen, C<sub>1</sub>-C<sub>22</sub> alkyl, C<sub>7</sub>-C<sub>22</sub> alkylenearyl, and mixtures thereof; x is from about 15 to about 30; at least one Q moiety is a hydrophobic quaternizing unit selected from the group consisting of C<sub>8</sub>-C<sub>30</sub> substituted or unsubstituted linear or branched alkyl, C<sub>6</sub>-C<sub>30</sub> substituted or unsubstituted cycloalkyl, C<sub>7</sub>-C<sub>30</sub> substituted or unsubstituted alkylenearyl, and mixtures thereof, and the remaining Q moieties are selected from the group consisting of lone pairs of electrons on the unreacted nitrogens, hydrogen, C<sub>1</sub>-C<sub>30</sub> substituted or unsubstituted linear or branched alkyl, C<sub>3</sub>-C<sub>30</sub> substituted or unsubstituted cycloalkyl, C<sub>7</sub>-C<sub>30</sub> substituted or unsubstituted alkylenearyl, and mixtures thereof; X is an anion present in sufficient amount to provide electronic neutrality; n is from 0 to 3;

B) the balance carriers and adjunct ingredients.